

Thank you for purchasing the HAKKO 153/154 Lead Former. This manual contains a simple explanation of the use of the unit. Be sure to read it before using the HAKKO 153/154 and keep the manual handy for easy reference.

## **Package Contents**

	Main Unit	Hexagon Wrench/2mm (0.08 in.) Hexagon Wrench/2.5mm (0.1 in.) Hexagon Wrench/3mm (0.12 in.) Hexagon Wrench/4mm (0.16 in.)
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## **Specifications**

Name	HAKKO 153	HAKKO 154	
Forming Size	5.6mm(0.22 in.) Pitch 5mm(0.2 in.) Pitch		
External Dimensions	125(W) × 130(H) × 110(D)mm [4.9(W) × 5.1(H) × 4.3(D) in.]		
Approximate Weight	2kg(4.4lbs.)including handle and clamp		

■ Compatible Taping Dimension		
Outer width of tape	Max. 85mm (3.3 in.)	
Pitch	5mm (0.2 in.)	

#### **⚠** CAUTION For annealed copper lead wire only. Square lead wire is not adapted.

Cutting & Forming







<ul> <li>Cutting</li> </ul>	only *
HAKKO	153 • 154



\* The cut end becomesslightly when cutting only.

中國 RoHS 產品中有毒有害物質或元素的名稱及含量

(Hg)

(Cd)

(Cr(VI)) 多溴聯苯 (PBB) 素 多溴二苯醚 (PBDE)

其含量均在 SI/T 11363-200

: 其含量超出 SJ/T 11363-2006

標準規定的限量要求。

驅動部 主機

部件名稱

六價鉻

## **Related Products**

## HAK(0152B

Motor drive for Lead Formers and Lead Cutters. Ensures accurate, high-speed processing at stable torque.

Specifications	
Name	HAKKO 152
Motor Speed (rpm.)	40 rpm. (50Hz) 48 rpm. (60Hz)
External Dimensions	360(W) × 150(H) × 140(D)mm (4.9 × 5.1 × 4.3 in.)
Approximate Weight	5.1kg (11.2 lbs.)
Processing Capacity	Max. 60,000 leads per hour when combined with the HAKKO 153/154

## **PHAK(O**

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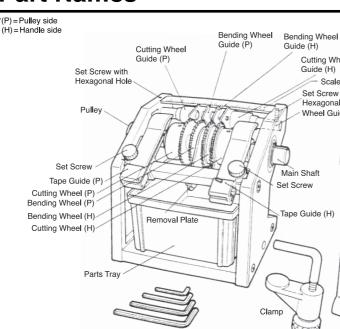
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MA00273X7140410

**Part Names** 



# **Parts List** Bending Wheel Scale Set Screw with Hexagonal Hole Wheel Guide Shaft Q24 Operation

< Preparations for Use >

#### 1) Fasten unit in place,

. Use the Clamp to mount the unit to the workbench

#### 2 Attach Handle.

· Insert the Handle so the end of the Adjustment Screw (C) fits into the groove on the Main Shaft, then tighten the screw with the 3mm (0.12 in.) Hexagonal Wrench.

< Cutting and Forming >

#### 1) Set the forming size.

 Using the 3mm (0.12 in.) Hexagonal Wrench, Loosen the two Adjustment Screws (A) on the Cutting Wheel.

 Adjust the position of the Bending Wheel Guide to the desired forming size.

The outer edge of the Bending Wheel Guide is the forming point. The lead wires will be bent alone the outside of the Bending Wheel Guide.

#### 2 Set the cutting size.

· Adjust the position of the Cutting Wheel Guide to the desired cutting size.

Remember that the inside of the Cutting Wheel Guide will be the cutting size.

 After the desired settings have been made. tighten the adjustment Screw on

The screws should fit perfectly into the grooves on the Main Shaft or the Bending Wheel and

#### 3 Set the parts tray in place.

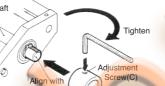
The cover should go on the side with the

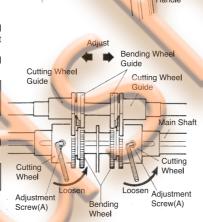
#### 4 Set the Tape Guide in place.

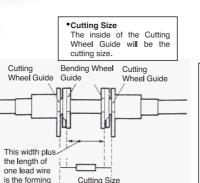
Loosen the Set Screw on the Tape Guide. Adjust the Tape Guide to the width of the part to be taped, then fasten it in place by tightening the Set Screw.

In order to male sure that the tape does not get caught, the Tape Guide should be set to slightly wider than the width of the taped part. Be careful not to set it too wide, since this may result in

Place the taped parts in position. Place the parts so hey catch on the gears of the Bending and Cutting Wheels, then turn the Handle slowly, while holding the first row of parts, until they catch on the Wheel Guides.







< Forming Only >

only forming parts, the, n be processed is shown in the diagram



#### Remove the Cutting Wheel Guide.

- Using the 2mm (0.08 in.) Hexagonal Wrench Joosen the two Set Screws with Hexagonal Holes holding on the Wheel Guide Shaft.
- · Pull out the Wheel Guide Shaft and remove the Cutting Wheel Guide.

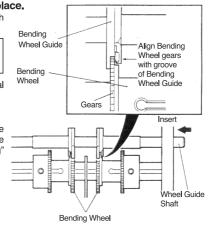
#### 2 Set the Bending Wheel Guide in place. Insert the Wheel Guide shaft and attach the Bending Wheel Guide.

When mounting, align the groove on the Bending Wheel Guide with the Bending Wheel gears, as shown in the figure at left.

· Fasten the two Set Screws with Hexagonal Holes as before.

## 3 Set the forming size.

• To set the forming size, use the same procedure as described in "1 Set the forming size" in the "Cutting and Forming



Guide Shaf

Set Screw With

## **Direction of Cutting/Bending Wheel Guides**

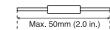
The figures below show the (P) (pulley) sides of the guides. Be careful to mount them in their proper directions



Bending Wheel Guide

< Cutting Only >

When only cutting parts, the maximum size thet can be processed is shown in the figure



#### 1) Switch the Cutting Wheel Guide and the Bending Wheel Guide. • Using the 2mm (0.08 in.) Hexagonal

- Wrench, loosen the two hexagonal-hole Set Screws with securing the Wheel Guide Shaft, then remove the Wheel Guide Shaft. · Switch the positions of the Cutting Wheel Guide (P) and the Bending Wheel Guide
- In the same manner, switch the positions of the Cutting Wheel Guide (H) andthe Bending Wheel Guide (H).

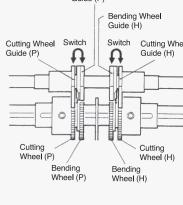
#### 2 Assemble the mechanism.

· Insert the Wheel Guide Shaft and mount the Cutting Wheel Guide and Bending Wheel Guide

When mounting, align the groove on the Cutting Wheel Guide with the Cutting Wheel gears, as shown in the figure at left. There is no need to align the Bending Wheel and the Bending Wheel Guide.

### 3 Set the cutting size.

• To set the cutting size, use the same procedure as described in "2 Set the cutting size" in the "Cutting and Forming" section of this manual



B1385

B1546

A1106

B1398

B1384

B1393

A1096

B1386

B1394

B1388

B1390 B1392

B1389

Scale (incl

6 A1098 A1102 Bending Wheel Guide (P)

13 A1097 Cutting Wheel (H)
14 A1101 A1105 Bending Wheel (H)

Cutting Blade

Side Plate (H)

Plate Shaft

Pulley

Base Plate Tape Guide (H) Set Screw

Tape Guide (P)

Cutting Wheel (P)

with screw

with set screw

with set screw

Cutting Wheel Guide (H

Bending Wheel Guide (H

